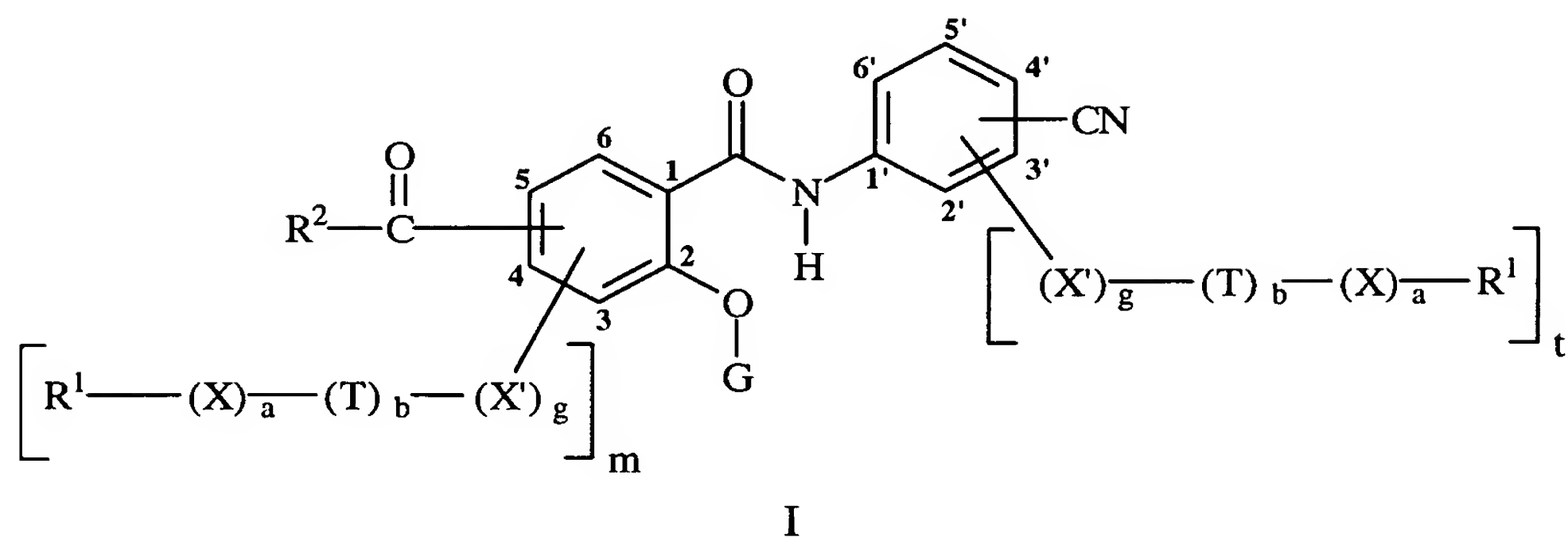


WHAT IS CLAIMED IS:

1. A composition comprising a compound of formula I:



Wherein:

- a.) m is an integer from 0 to 3;
- b.) t is an integer from 0 to 4;
- c.) a is 0 or 1;
- d.) b is 0 or 1;
- e.) g is 0 or 1;
- f.) R^1 for said radical is independently selected from the group consisting of:
 - i) H;
 - ii) C_1 - C_{16} linear or branched, substituted or unsubstituted alkyl;
 - iii) C_2 - C_{16} linear or branched, substituted or unsubstituted alkenyl;
 - iv) C_2 - C_{16} linear or branched, substituted or unsubstituted alkynyl;
 - v) C_3 - C_{16} linear or branched, substituted or unsubstituted cycloalkyl;
 - vi) C_3 - C_{16} linear or branched, substituted or unsubstituted cycloalkenyl;
 - vii) C_7 - C_{16} linear or branched, substituted or unsubstituted alkaryl;
 - viii) C_7 - C_{16} linear or branched, substituted or unsubstituted aralkyl;
 - ix) C_6 - C_{16} substituted or unsubstituted aryl;
 - x) C_5 - C_{20} heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof; and
 - xi) a suitable charge balancing counterion $(M^{n+})_{1/n}$, provided a and b are both 1 and X is selected from O and S;

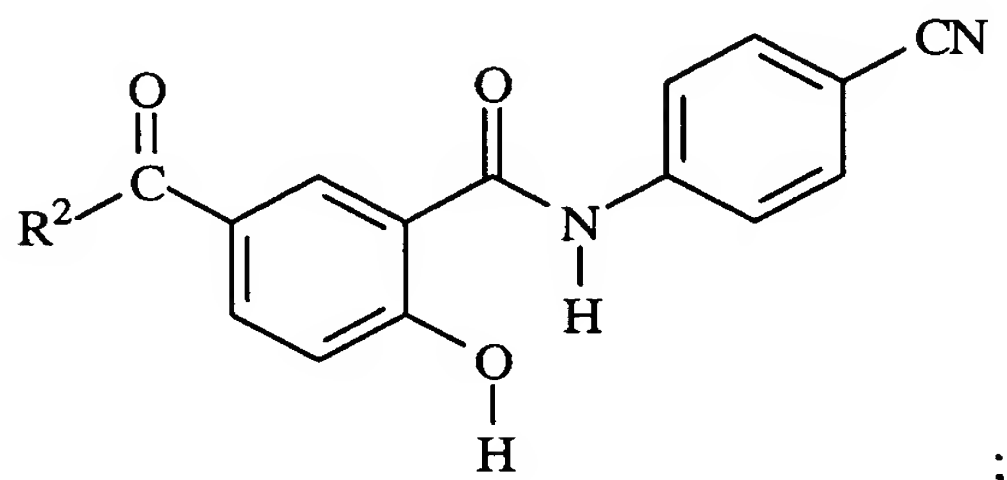
- xii) when a, b and g are all 0 for any single radical, $R^1-(X)_a-(T)_b-(X')_g$, R^1 for said radical may be further selected from the group consisting of CN, an amine oxide moiety, NO_2 and mixtures thereof;
 - g.) X and X', when present, are selected from O, S, and NR^2 ;
 - h.) each R^2 is independently selected from the group consisting of:
 - i) H;
 - ii) C_1-C_{16} linear or branched, substituted or unsubstituted alkyl;
 - iii) C_2-C_{16} linear or branched, substituted or unsubstituted alkenyl;
 - iv) C_2-C_{16} linear or branched, substituted or unsubstituted alkynyl;
 - v) C_3-C_{16} linear or branched, substituted or unsubstituted cycloalkyl;
 - vi) C_3-C_{16} linear or branched, substituted or unsubstituted cycloalkenyl;
 - vii) C_7-C_{16} linear or branched, substituted or unsubstituted alkaryl;
 - viii) C_7-C_{16} linear or branched, substituted or unsubstituted aralkyl;
 - ix) C_6-C_{16} substituted or unsubstituted aryl; and
 - x) C_5-C_{20} heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof;
 - i.) T, when present, is selected from C=O, C=S, S=O, and SO_2 ; when T is S=O or SO_2 , X and X' associated with said T may not be S;
 - j.) G is:
 - i) H;
 - ii) a suitable charge balancing counterion $(M^{n+})_{1/n}$, or
 - iii) a cleaveable group selected from the group consisting of $Si((O)_pR^3)_3$, where p is independently 0 or 1; $C(O)_q((O)_pR^3)_r$, wherein p is independently 0 or 1 and when q is 1, r is 1, and when q is 0, r is 3; R^3 is independently selected from the group consisting of C_1-C_{16} linear or branched, substituted or unsubstituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkaryl, aralkyl, and aryl, and mixtures thereof
- provided that when, for any radical, b is 0, a, g, or a and g are 0 for said radical.

2. The composition of Claim 1 further comprising at least one additional component selected from the group consisting of:
 - a) a surfactant wherein either:
 - (i) the ratio of the weight of the surfactant divided by the weight of the substituted salicylanilide compound of formula I is greater than or equal to 1.0 and further provided that the surfactant is 1 wt% or greater of the composition; or
 - (ii) the composition comprises at least 1 wt% of a cationic surfactant, wherein the ratio of the weight of the surfactant divided by the weight of said compound I is greater than or equal to 1.0; and wherein a 10 wt% aqueous solution of this composition has a pH less than or equal to 7.0;
 - b) from 0.5% to 90% by weight of a solvent said solvent having Hildebrand solubility parameter d_S (cal/cm³)^{1/2} meeting the following criterion: $5 < d_S < 20$, wherein a 10 wt% aqueous solution of this composition has a $pH \geq (pK_a - 1)$ where pK_a is the calculated pK_a of the O-G phenol of formula I, or when G is not H, the pK_a of the O-G phenol of formula I that results from replacing G with H;
 - c) a perfume having a C log P greater than or equal to 2.0;
 - d) 0.001 to 1.0% by weight of an enzyme; and
 - e) mixtures thereof.
3. The composition of Claim 2 wherein the enzyme is selected from the group consisting of: proteases, amylases, cellulases, mannanases, xyloglucanases, pectinases, lipases, laccases, peroxidases and mixtures thereof.
4. The composition of Claim 2 wherein the composition comprises at least two of said additional components.
5. A method of reducing bacteria or inhibiting bacterial growth comprising contacting a substrate comprising a textile with the composition of Claim 1.
6. A substrate treated according to the method of Claim 5.
7. A liquid detergent comprising the composition of Claim 1.

8. The composition of Claim 2 wherein m is 0 or 1; t is 0 or 1; a, b and g are all 0; G is H and R¹, when present, is not H.

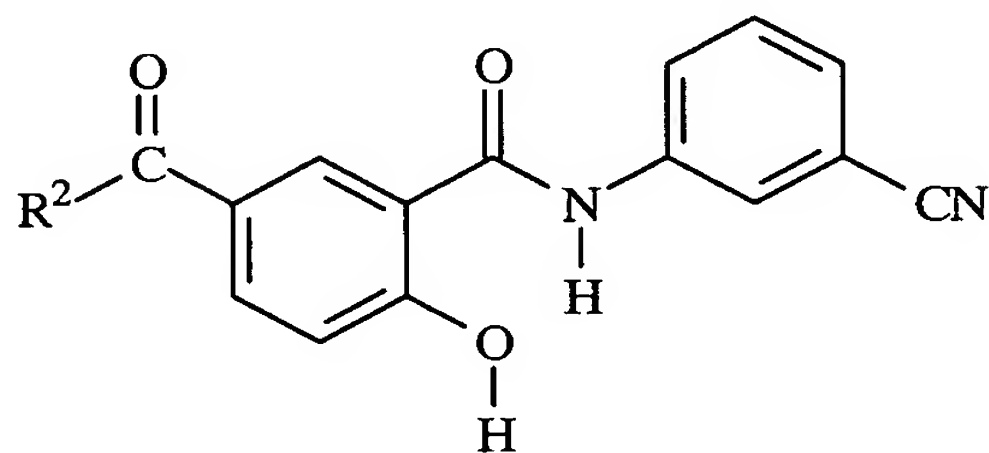
9. The composition of Claim 8 wherein said compound is selected from the group consisting of:

A)



;

B)



; and

C) mixtures thereof

wherein R² is selected from the group consisting of:

- i) H;
- ii) C₁-C₁₆ linear or branched, substituted or unsubstituted alkyl;
- iii) C₂-C₁₆ linear or branched, substituted or unsubstituted alkenyl;
- iv) C₂-C₁₆ linear or branched, substituted or unsubstituted alkynyl;
- v) C₃-C₁₆ linear or branched, substituted or unsubstituted cycloalkyl;
- vi) C₃-C₁₆ linear or branched, substituted or unsubstituted cycloalkenyl;
- vii) C₇-C₁₆ linear or branched, substituted or unsubstituted alkaryl;
- viii) C₇-C₁₆ linear or branched, substituted or unsubstituted aralkyl;
- ix) C₆-C₁₆ substituted or unsubstituted aryl; and
- x) C₅-C₂₀ heteroaryl units comprising one or more heteroatoms selected from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof.

10. The composition of Claim 9 wherein R^2 is selected from the group consisting of:
 - a.) C_1 - C_{16} linear or branched, substituted or unsubstituted alkyl; and
 - b.) C_6 - C_{16} substituted or unsubstituted aryl.

11. The composition of Claim 2, wherein m is 0 or 1; t is 0 or 1; and G is H

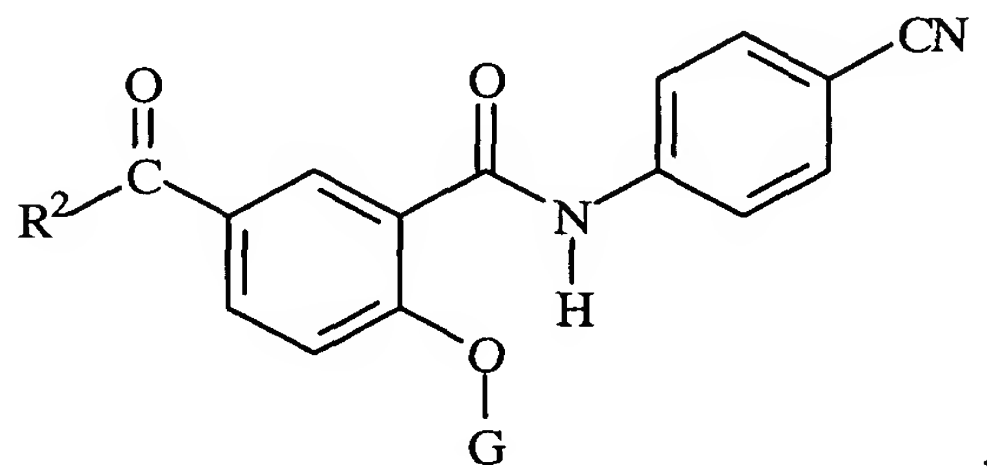
12. The composition of Claim 11, wherein t is 0.

13. The composition of Claim 12, wherein all a, b and g are 0.

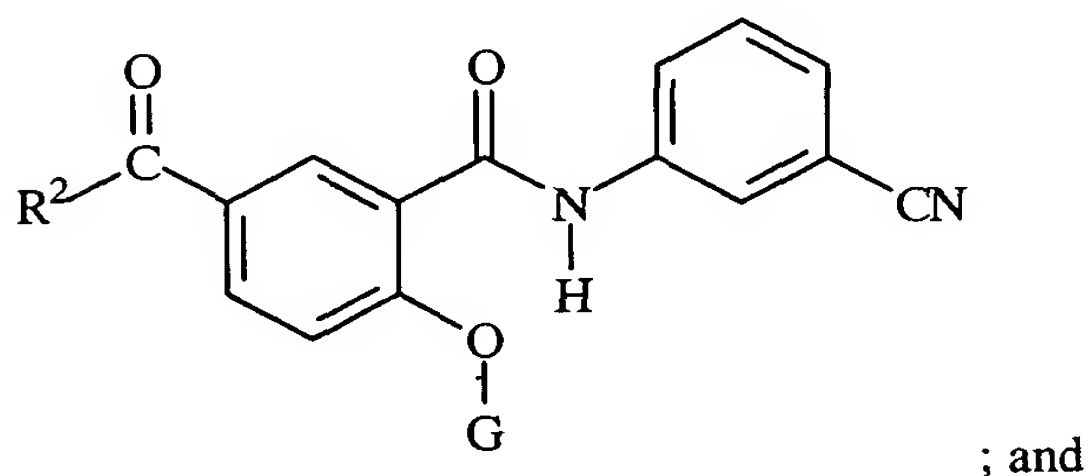
14. The composition of Claim 13, wherein m is 0.

15. A compound selected from:

A)



B)



C) mixtures thereof;

wherein R^2 is selected from the group consisting of:

- i) H;
- ii) C_1 - C_{16} linear or branched, substituted or unsubstituted alkyl;
- iii) C_2 - C_{16} linear or branched, substituted or unsubstituted alkenyl;
- iv) C_2 - C_{16} linear or branched, substituted or unsubstituted alkynyl;
- v) C_3 - C_{16} linear or branched, substituted or unsubstituted cycloalkyl;
- vi) C_3 - C_{16} linear or branched, substituted or unsubstituted cycloalkenyl;

- vii) C₇-C₁₆ linear or branched, substituted or unsubstituted alkaryl;
- viii) C₇-C₁₆ linear or branched, substituted or unsubstituted aralkyl;
- ix) C₆-C₁₆ substituted or unsubstituted aryl; and
- x) C₅-C₂₀ heteroaryl units comprising one or more heteroatoms selected

from the group consisting of nitrogen, oxygen, sulfur, and mixtures thereof; and G is H, a suitable charge balancing counterion (Mⁿ⁺)_{1/n}, or a cleaveable group selected from the group consisting of Si((O)_pR³)₃, where p is independently 0 or 1; C(O)_q((O)_pR³)_r, wherein p is independently 0 or 1 and when q is 1, r is 1, and when q is 0, r is 3; R³ is independently selected from the group consisting of C₁-C₁₆ linear or branched, substituted or unsubstituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkaryl, aralkyl, and aryl, and mixtures thereof.

- 16. The compound of Claim 15, wherein R² is selected from the group consisting of:
 - a.) C₁-C₁₆ linear or branched, substituted or unsubstituted alkyl; and
 - b.) C₆-C₁₆ substituted or unsubstituted aryl.
- 17. The compound of Claim 16, wherein R² is selected from the group consisting of:
 - a.) C₅-C₁₁ linear or branched, substituted or unsubstituted alkyl; and
 - b.) C₆-C₁₄ substituted or unsubstituted aryl.
- 18. A method of synthesizing a 5-acyl substituted salicylamide comprising the step of moving the attachment point of an acyl group, said acyl group being attached to the phenolic oxygen atom at position 2 of a salicylamide, from said phenolic oxygen atom to the carbon atom at the 5 position of said salicylamide.
- 19. The method of Claim 18 wherein moving said acyl group comprises the step of contacting the salicylamide having the acyl group attached to the phenolic oxygen atom at position 2 of said salicylamide with a Lewis acid.
- 20. The method of Claim 19 wherein said moving step is performed in the presence of a solvent.